

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-10 (Cancelled)

11. (New) A process for vulcanizing rubber or latex comprising adding a mixture M comprising a component

a) comprising

a1) from 20 to 96% by weight of sulfur,

a2) from 4 to 80% by weight of a complexer and where appropriate other

additives b) to the rubber or latex and then conducting the vulcanization, wherein the average primary particle size of component a) is in the range from 0.05 to 20 μ m.

12. (New) A process as claimed in claim 11, wherein the complexer a2) comprises a polymeric complexer compound.

13. (New) A process as claimed in claim 11, wherein the polymeric complexer a2) is a ligninsulfonate, a β -naphthalenesulfonic acid-formaldehyde condensate, or a mixture of ligninsulfonate and β -naphthalenesulfonic acid-formaldehyde condensate.

14. (New) A process as claimed in claim 11, wherein the polymeric complexer a2) is an alkali metal ligninsulfonate and/or an alkaline earth metal ligninsulfonate.

15. (New) A process as claimed in claim 11, wherein the mixture M is free-flowing with an average particle size of from 50 μm to 4 mm.

16. (New) A process as claimed in claim 11, wherein the mixture M is a liquid dispersion.

17. (New) A vulcanizable composition comprising rubber or latex and a vulcanizing amount of a component a) comprising

a1) from 20 to 96% by weight of sulfur

a2) from 4 to 80% by weight of a complexer, based on the total weight of

component a), and wherein the average primary particle size of component a)

is the range from 0.05 to 20 μm .

18. (New) A sulfur-containing composition suitable for vulcanizing rubber or latex comprising 20 to 96% by weight of sulfur and from 4 to 80% by weight of a complexer, the composition having an average primary particle size in the range from 0.05 to 20 μm .

19. (New) A sulfur-containing composition as claimed in claim 18, where the complexer comprises a polymeric complexer compound.

20. (New) A sulfur-containing composition as claimed in claim 19, where the polymeric complexer is a ligninsulfonate, a β -naphthalensulfonic acid-formaldehyde condensate, or a mixture of ligninsulfonate and β -naphthalensulfonic acid-formaldehyde condensate.